

6SL3130-7TE21-6AA4

SINAMICS S120 Active Line Module

Siemens 6SL3130-7TE21-6AA4 is a 16 kW SINAMICS S120 Active Line Module for regenerative infeed. It accepts a 380–480 V three-phase supply and provides a 600 V DC link rated 27 A.

PRODUCT SNAPSHOT

BRAND
Siemens

FAMILY
SINAMICS S120 Booksize drive

PART
6SL3130-7TE21-6AA4

DOCUMENT STATUS
Controlled engineering copy

APTER POWER

WHATSAPP / PHONE

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PRODUCT OVERVIEW

6SL3130-7TE21-6AA4 provides regenerative infeed and DC-link supply for the matched SINAMICS S120 Booksize drive system installation.

- Exact article identity 6SL3130-7TE21-6AA4
- SINAMICS S120 Active Line Module
- Documented role: regenerative infeed and DC-link supply
- Controlled installation, diagnostics and functional verification

RELATED APTER POWER PAGES					
1	Siemens 6RY1803-0AA25-0AA1	2	Siemens 6SE7035-1EJ84-1JC1	3	Siemens 6SE7041-8HK85-1HA0
4	Siemens 6SE7041-8EK85-0HA0	5	Siemens 6SE7041-8GK85-0HA0	6	Siemens 6RA8075-6DS22-0AA0
7	Siemens 6RY1243-0EA00	8	Siemens 6SE7027-2TD84-6HF3		

SYSTEM COMPONENTS

DOCUMENTED COMPONENT	ROLE IN SYSTEM
Proximity probe	Matched extension cable
Proximator Sensor	AISI 4140 target

ENGINEERING CONTEXT

The component remains matched to the matched S120 Booksize infeed position, its connectors and the recorded configuration. Commissioning preserves the installed architecture and verifies controlled drive response.

TECHNICAL DATA

PARAMETER	VALUE
Module type	Active Line Module
Construction	Booksize
Input supply	3 AC 380–480 V, 50/60 Hz
Permitted line voltage	342–528 V
Permitted line frequency	47–63 Hz
Rated infeed power	16 kW
S6 power	21 kW
Maximum power	35 kW
DC-link output	600 V DC, 27 A
S6 DC-link current	35 A
Maximum DC-link current	59 A
Rated input current	26 A at 380 V; 25 A at 400 V; 21 A at 480 V
Short-circuit strength	65 kA
Electronics supply	24 V DC, -15% / +20%

PARAMETER	VALUE
Maximum 24 V current	1.1 A
DC-link capacitance	710 µF
Line connection	X1 screw terminals
Line conductor range	2.5–10 mm² / AWG 14–8
Protective earth	M5 connection
Shield connection	Integrated
Maximum shielded line	630 m
Maximum unshielded line	850 m
Degree of protection	IP20 / UL open type
Cooling	Internal air cooling
Operating temperature	0 to 40 °C
Installation altitude	Up to 1000 m without derating
Conformity	CE and cULus
Included accessory	DRIVE-CLiQ cable

RELATED PRODUCT PAGES

TECHNICAL NOTE

Install 6SL3130-7TE21-6AA4 only in the documented matched S120 Booksize infeed position. Preserve the as-found wiring, hardware revision and configuration; then review diagnostics and verify the affected regenerative infeed and DC-link supply under controlled conditions.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

SINAMICS S120 Booksize drive system planned maintenance

Restores the documented regenerative infeed and DC-link supply during controlled cabinet service.

SINAMICS S120 Active Line Module replacement

Uses the exact 6SL3130-7TE21-6AA4 identity instead of a nearby electrical or firmware execution.

Drive-system refurbishment

Preserves the recorded hardware, connections, protective earth, cooling and configuration.

Controlled recommissioning

Confirms diagnostics and the affected drive role before automatic operation.

PRODUCT PRECAUTIONS

1

Confirm the complete 6SL3130-7TE21-6AA4 marking, SINAMICS S120 Active Line Module designation and

2

Place the drive, motor and connected process in the approved maintenance state.

3

Isolate incoming and auxiliary power, prove stored DC-link energy discharged and use ESD controls.

4

Record every power, signal, feedback, communication, shielding and protective-earth connection before

5

Verify the installed host and all official values documented for 6SL3130-7TE21-6AA4; do not infer

6

Restore the approved hardware revision, connectors, cooling path and parameter or project record.

7

Energize in the manufacturer sequence and review drive, module and communication diagnostics.

8

Complete controlled interlock, feedback and safe-point functional tests before service release.

RELATED APTER POWER PAGES

1

Siemens 6RY1803-0AA25-0AA1

2

Siemens 6SE7035-1EJ84-1JC1

3

Siemens 6SE7041-8HK85-1HA0

4

Siemens 6SE7041-8EK85-0HA0

5

Siemens 6SE7041-8GK85-0HA0

6

Siemens 6RA8075-6DS22-0AA0

7

Siemens 6RY1243-0EA00

8

Siemens 6SE7027-2TD84-6HF3

ENGINEER FAQ

Q1 How is the exact 6SL3130-7TE21-6AA4 execution identified?

Match the complete 6SL3130-7TE21-6AA4 article number, SINAMICS S120 Active Line Module designation and the recorded host position before replacement.

Q2 What documented function does 6SL3130-7TE21-6AA4 perform?

It provides regenerative infeed and DC-link supply within the SINAMICS S120 Booksize drive system arrangement.

Q3 Which installed hardware must be matched before fitting 6SL3130-7TE21-6AA4?

Use only the matched S120 Booksize infeed position with matching terminals, connectors, hardware revision and system record.

Q4 Which official values govern 6SL3130-7TE21-6AA4?

Module type: Active Line Module; Construction: Booksize; Input supply: 3 AC 380–480 V, 50/60 Hz; Permitted line voltage: 342–528 V.

Q5 What must be recorded before removing 6SL3130-7TE21-6AA4?

Record the nameplate, board position, every power and signal connection, shielding, protective earth, firmware or parameter state and active diagnostics.

Q6 Which handling controls apply to 6SL3130-7TE21-6AA4?

Place the drive and machine in the approved maintenance state, isolate all supplies, prove stored energy discharged and use ESD controls.

Q7 How is 6SL3130-7TE21-6AA4 verified after installation?

Restore the documented hardware and configuration, review diagnostics and complete a controlled safe-point functional test of the affected drive role.

Q8 Which manufacturer record supports the 6SL3130-7TE21-6AA4 page?

The Siemens SINAMICS S120 Active Line Module product data and equipment manual and directly applicable Siemens family manual support the stated identity, function and commissioning boundaries.

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1 Siemens 6RY1803-0AA25-0AA1

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4 Siemens 6SE7041-8EK85-0HA0

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7 Siemens 6RY1243-0EA00

8 Siemens 6SE7027-2TD84-6HF3

SOURCE Siemens SINAMICS S120 Active Line Module product data and equipment manual | Siemens official product and family documentation, accessed 24 September 2026
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